

EXHIBITS

EXHIBIT A



POWER TRANSMISSION

Pull out test

Carbon fiber cord (W238) vs

Hybrid cord (W071)

Test description

INTERNATIONAL ISO STANDARD 12046

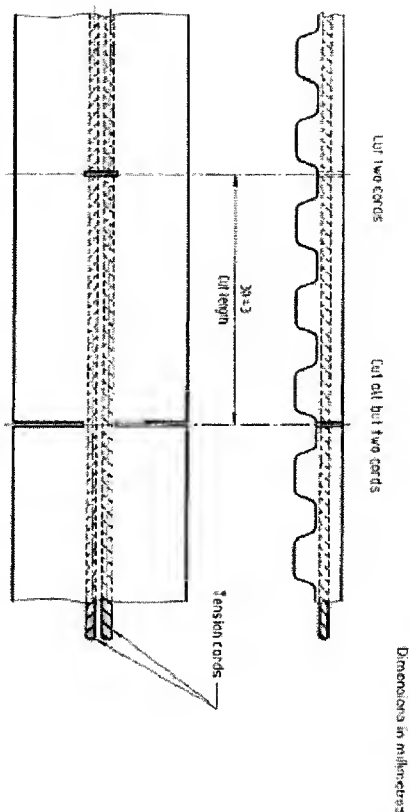


Figure 3 — Specimen for tension cord adhesion test

6.4 Tension-cord adhesion test

6.4.1 Test specimens

Two specimens with a minimum length of 100 mm shall be taken from a belt. These shall be partially cut at two positions located 30 mm (see also 6.4.2) apart to extract two cords, as illustrated in figure 3.

6.4.2 Procedure

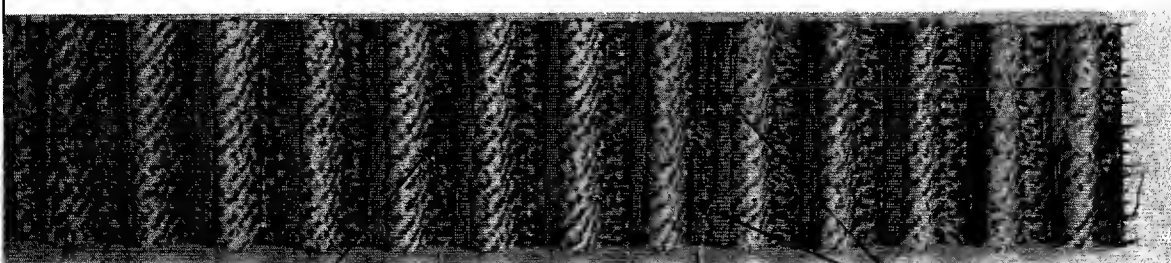
Place the test specimen in the grips of a tensile-testing device. Apply a tension force to the specimen at the speed of (50 ± 5) mm/min until the two cords are extracted. If the cords break before they are extracted, the cut length may be reduced to a value that allows complete extraction.

Repeat the test using the second test specimen.

6.4.3 Expression of results

The lower value obtained from the two specimens is taken as the tension cord adhesion value for a 30 mm length. Any tests showing results of improper sample preparation should be repeated.

minimum 100 mm



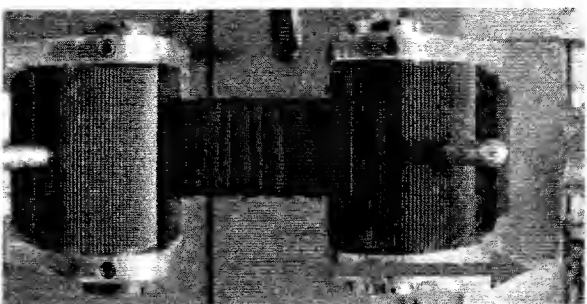
Cut all but two cords

~ 30 mm

Cut two cords

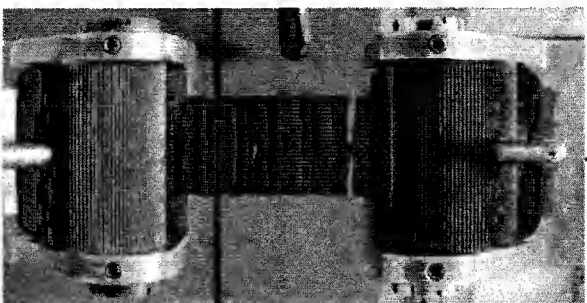
Belt with carbon fiber cord (W238) and LAETITIA compound

Step 1

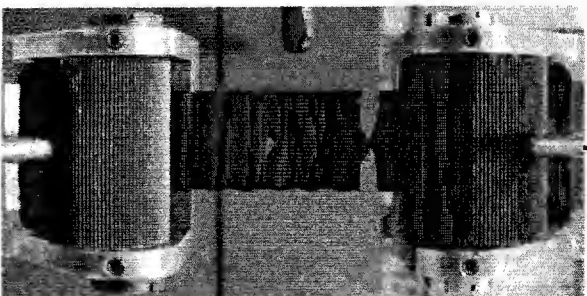


Traction direction at 50mm/min

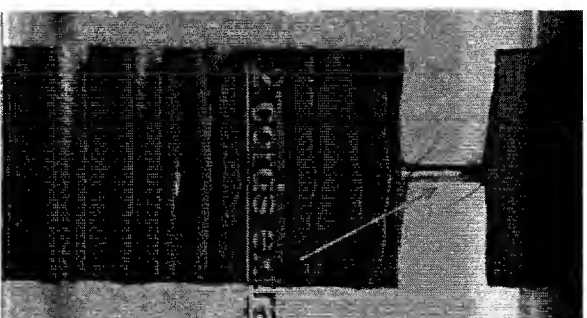
Step 2



Step 3

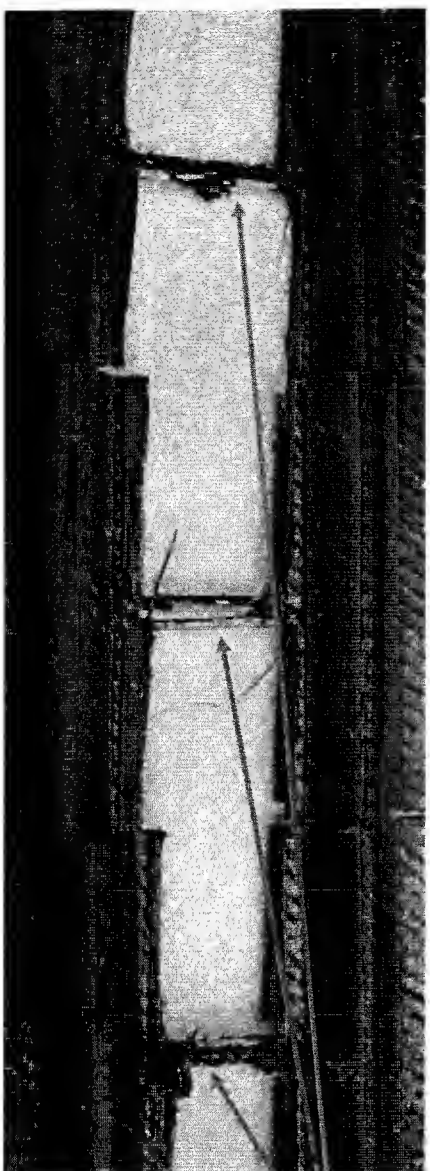


Pull out OK

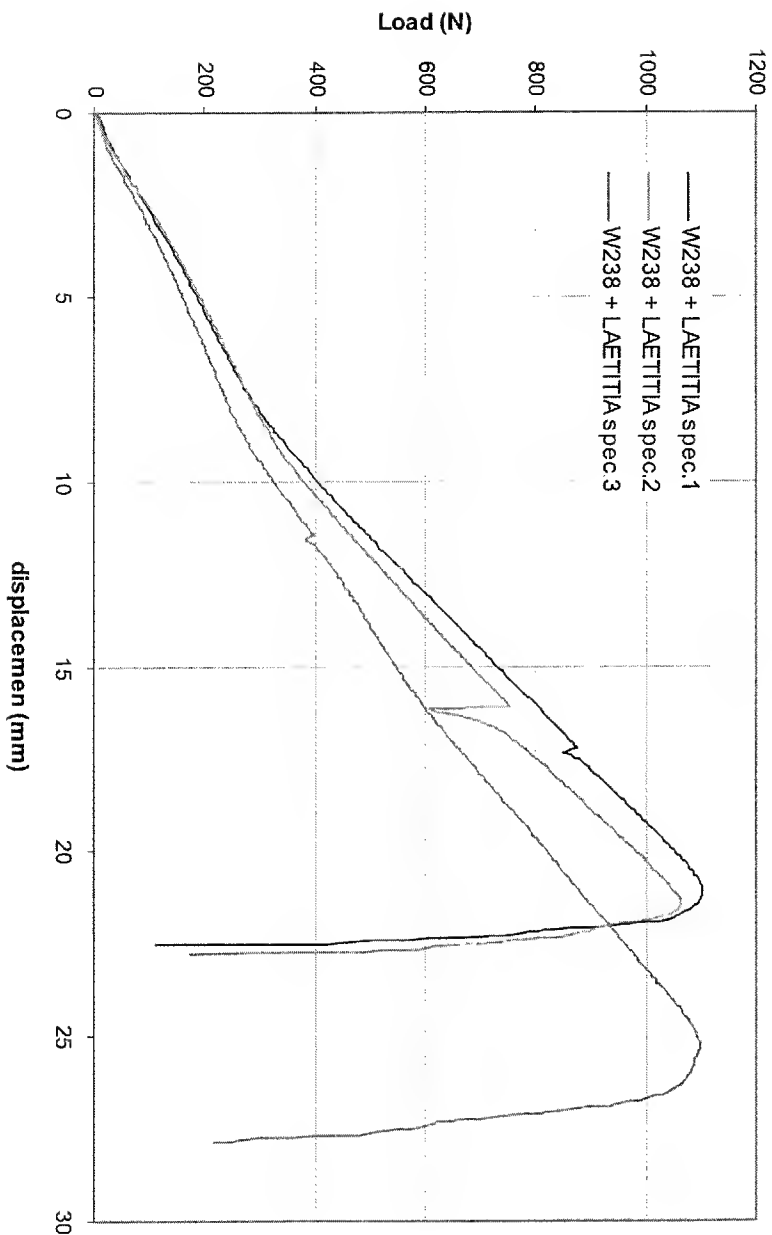


2 cords extracted

2 cords extracted



Belt with carbon fiber cord (W238) and LAETTIA compound



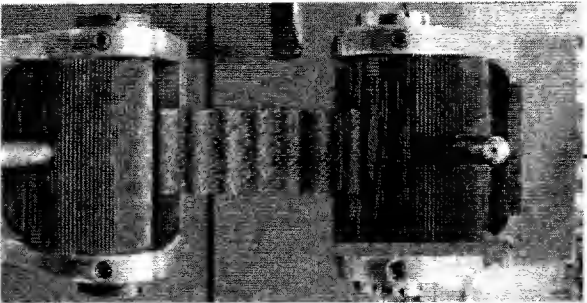
Specmn	Carico di Estrazione
No.	N
1	1104.2
2 min	1062.1
3	1097.7
Mean	1088
StdDev	22.7

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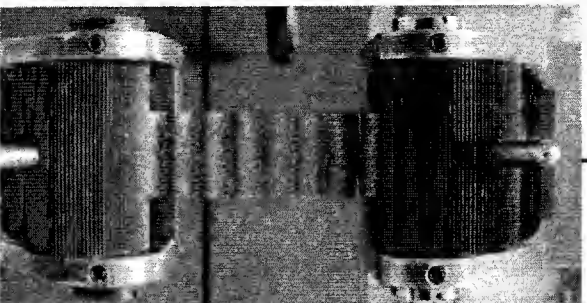
Belt with Hybrid cord (W071) and LAETITIA compound

Step 1

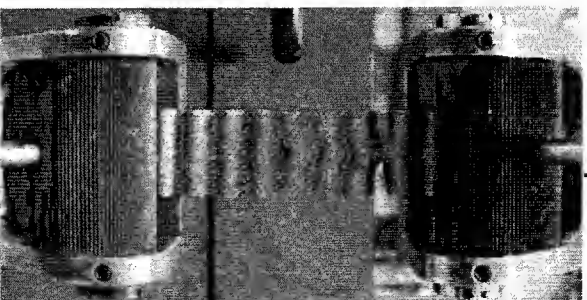


Traction direction at 50mm/min

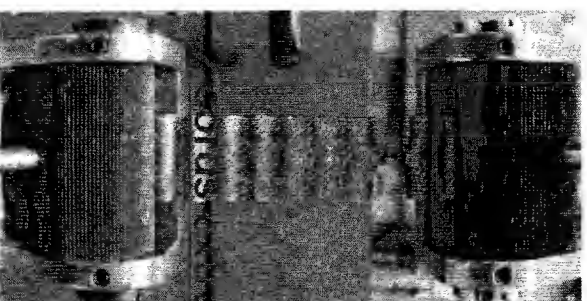
Step 2



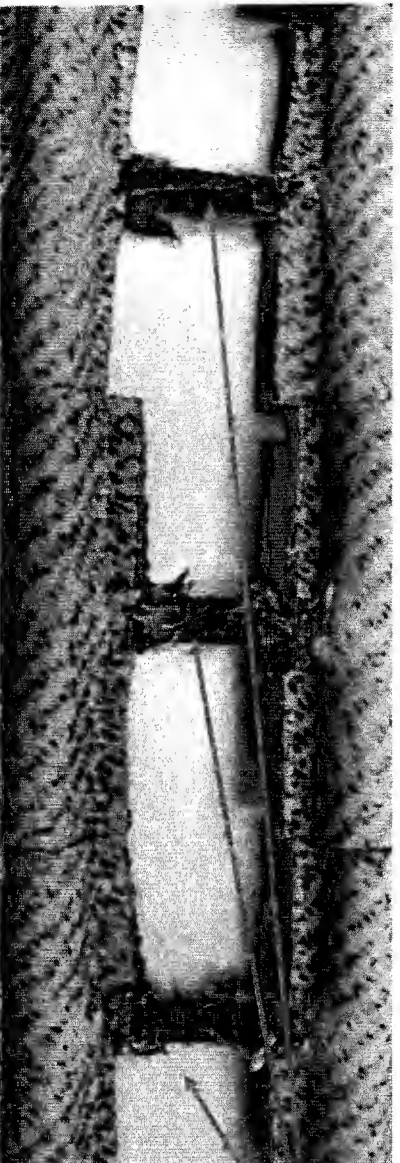
Step 3



Pull out OK



2 cords extracted

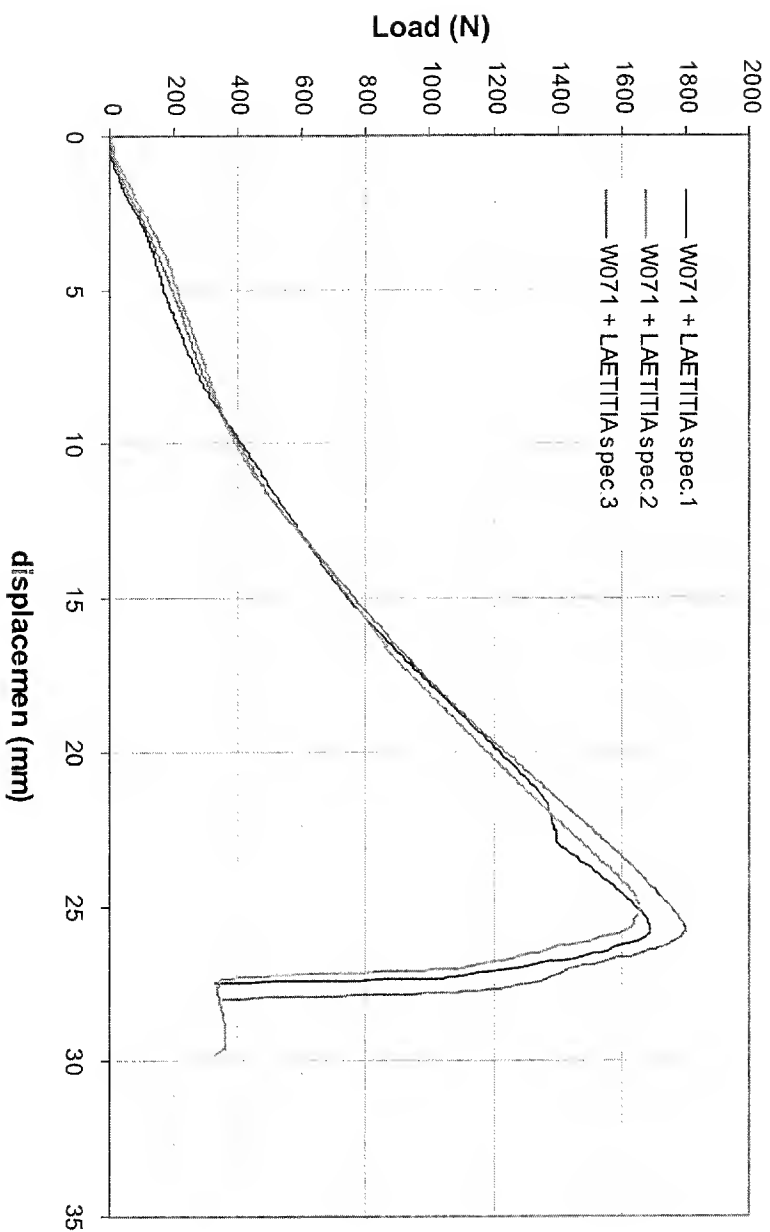


2 cords extracted

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Belt with carbon Hybrid cord (W071) and LAETITIA compound



Spcmn	Carico di Estrazione
No.	N
1	1688.9
2 min	1657.1
3	1798.5
Mean	1714.8
StdDev	74.2

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